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Date: 04/04/2024

Dias, Liyanagamage Ranganath Prabashwara

Time: 4:43:30 PM

University of Rochester

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JAMIE ROMEO

MONROE COUNTY CLERK

EXHIBIT L

From: **Dias, Liyanagamage** rdias@rochester.edu
Subject: Re: Box folder
Date: June 8, 2023 at 10:26 AM
To: Dewhurst, Stephen Stephen_Dewhurst@URMC.Rochester.edu

Dear Steve,

I would like to express my gratitude for your email concerning the documents we have submitted in response to the Committee's request. I want to confirm that I have provided all available documentation, data, and information in accordance with the Committee's request. In cases where certain requested information is not within our possession, I have included additional information in this correspondence. I kindly request your assistance in sharing this information with the Committee.

Regarding the requested "cooling data," I want to inform you that we do not possess cooling data for the specific measurements in question. Generally, we do not collect data during the cooling process due to its fast nature and increase in pressure during cooling, which often fails to accurately represent the properties of the materials under study. Consequently, we do not have any cooling data to provide to the Committee.

There have been instances where a peer review referee has specifically requested a cooling curve, in which case we obtain the cooling data and make it available to the referee. For example, the data related to Fig 13a in publication #3 was acquired in response to such a request during the peer review process. It is customary in high-pressure low-temperature transport experiments to fulfill such requests. I am prepared to discuss this matter in more detail with you and the Committee during our scheduled meeting on Friday.

Regarding the Committee's request for pictures of our experimental setup, I would like to clarify that we do not always capture images of our experimental setup. This is due to the extremely challenging experimental environments we work in, which often require numerous adjustments in response to failed experiments. We are unable to predict which setup for a given experimental run will prove successful. Consequently, it has not been our practice to photograph every experimental setup.

Generally, if we require a picture to illustrate our general experimental setup, we conduct an experiment specifically aimed at obtaining high-quality images of the setup. While I have provided the Committee with some images of our general experimental setup, we do not possess specific pictures of the individual experimental runs pertinent to the successful experiments under investigation by the Committee.

Regarding the experimental setup for the transport and susceptibility measurements related to the successful experiments under investigation, I have furnished the Committee with a general description of the experimental setup for electrical resistance and magnetic susceptibility experiments. There is no unique or specific aspect of the experimental setup for the aforementioned successful experiments that necessitates a different explanation.

I would like to emphasize that we typically utilize two settings for preamp gains, namely x100 and x500, depending on the level of "noise" encountered. I would also like to highlight that we refrain from performing any smoothing, averaging, or interpolation for transport measurements. Similarly, unless a measurement is derived from only three or two probes, we do not carry out any background subtraction.

Regarding the background subtraction for susceptibility data in the successful experiments under investigation, we generally apply a standard 2nd or 3rd-order polynomial function, with the exception of the CSH sample. It is important for the Committee to understand that, from our perspective, the illustration of background subtraction is primarily presented for visualization purposes, as the raw data itself usually exhibits the superconducting signal.

In cases where an experimental run only yields three or two probe measurements, necessitating background subtraction, we do not utilize any code for background subtraction in R(T) and/or chi'(T) measurements. We used MATLAB in build functions to do fittings.

Lastly, I would like to confirm that the R vs. T curves representing some of the Tc data points in Fig1b of publication #1 can be found in the EDF7 and EDF4 files that I have submitted. This encompasses all the information we possess in this regard.

Steve, I appreciate your assistance in conveying this information to the Committee. I have made a thorough effort to timely provide the Committee with all the documented information available to me in response to their comprehensive request. Rest assured that I am not withholding any information and I want you and the Committee to be fully aware that I am cooperating transparently and to the best of my abilities. If there are any doubts or concerns to the contrary, please inform me so that we may address them appropriately and clarify any misunderstandings. I value your courtesy in this matter.

Regards,
Ranga,

From: Dewhurst, Stephen <Stephen_Dewhurst@URMC.Rochester.edu>
Sent: Wednesday, June 7, 2023 9:43 PM
To: Dias, Liyanagamage <rdias@rochester.edu>
Cc: Dewhurst, Stephen <Stephen_Dewhurst@URMC.Rochester.edu>
Subject: Box folder

Dear Ranga

Marius texted me a few minutes ago to say that the documents I shared with the committee today (the BOX folder you prepared) don't contain all of the information the committee had asked for.

It's my understanding that you're actively preparing additional documents for the committee. Could you please confirm?

If that's not the case, I'll need to ask Marius for a list of materials he requested and still needs.

Thanks!

Best regards

Steve

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Steve Dewhurst
He/him/his
Interim Vice President for Research
Vice Dean for Research, School of Medicine & Dentistry
University of Rochester
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